

Claims

1. A distributor for distributing a flow of liquid over a surface to be cooled, the distributor comprising:
- an inlet manifold (8, 25);
 - 5 - an outlet manifold (9, 24); and
 - at least one flow cell (26 - 29) connected between the manifolds, the flow cell comprising:
 - a cell inlet (5) in fluid communication with the inlet manifold;
 - a cell outlet (6) in fluid communication with the outlet manifold;
 - 10 - a main flow channel (50) formed as a meandering sequence of channel segments (64, 63, 62, 61) for guiding a main flow of liquid from the cell inlet (5) along the surface to the cell outlet (6) with a plurality of changes in the direction (51, 52) of the main flow; and
 - a bypass flow channel (71, 72, 73) for allowing a bypass flow of liquid from
 - 15 the cell inlet to the cell outlet; wherein
 - the bypass flow channel interconnects the channel segments of the main flow channel.
2. A distributor as in claim 1 wherein the main flow channel is formed by wall
- 20 segments (21) extending from a base (25) to the surface to be cooled, and wherein the bypass flow channel is formed by gaps between the wall segments and the surface to be cooled.
3. A distributor as in claim 1 or 2 wherein a plurality of flow cells is
- 25 interconnected between the manifolds, and wherein each of the flow cells comprises a bypass flow channel.

4. A liquid-coolable unit for removing heat from a heat source, the unit comprising a plate heated by the heat source and a distributor as in any preceding claim for distributing a flow of cooling liquid over a surface of the plate.

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5. A liquid-coolable electronic unit, the unit comprising an electronic circuit encapsulated in a circuit module having an outer surface, and a distributor as in any one of claims 1 to 3 for distributing a flow of cooling liquid over the surface.

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